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SEQUENCE LISTING

<110> Epimmune, Inc.
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Alessandro Sette
John Sidney
Scott Southwood
Robert Chesnut
Esteban Celis
Elissa Keogh
Epimmune Inc.

<120> Inducing Cellular Immune Responses to
Carcinoembryonic Antigen Using Peptide and Nucleic Acid
Compositions

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<141> 1999-12-10

<150> US 08/027,146

<151> 1993-03-05

<150> US 08/073,205

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Leu Thr Leu Leu Ser Val Thr Arg
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Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg
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1 5

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Asn Ser Asp Thr Gly Leu Asn Arg
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Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys
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Pro Ser Ile Ser Ser Asn Asn Ser Lys
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Pro Ser Pro Gln Tyr Ser Trp Arg
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Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg
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Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg
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Gln Ala His Asn Ser Asp Thr Gly Leu Asn Arg
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Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg
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Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
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<400> 498

Gln Ser Leu Pro Val Ser Pro Arg
1 5

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Arg Leu Gln Leu Ser Asn Asp Asn Arg
1 5

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 1 5

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Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys
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 Ser Ile Ser Ser Asn Asn Ser Lys
 1 5

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 Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys
 1 5 10

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<400> 507
 Ser Thr Pro Phe Asn Val Ala Glu Gly Lys
 1 5 10

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<400> 508
 Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg
 1 5 10

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<400> 509

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Ser | Pro | Ser | Tyr | Thr | Tyr | Tyr | Arg |
| 1 | | | | 5 | | | | | 10 |

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<400> 510

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Thr | Val | Ser | Ala | Glu | Leu | Pro | Lys |
| 1 | | | | 5 | | | | | 10 |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Thr | Val | Tyr | Ala | Glu | Pro | Pro | Lys |
| 1 | | | | 5 | | | | | 10 |

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<400> 512

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Phe | Asn | Val | Thr | Arg | Asn | Asp | Ala | Arg |
| 1 | | | | 5 | | | | | 10 | |

<210> 513

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<400> 513

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Leu | Thr | Leu | Phe | Asn | Val | Thr | Arg |
| 1 | | | | 5 | | | | |

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 Thr Leu Thr Leu Leu Ser Val Thr Arg
 1 5

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 Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys
 1 5 10

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 Thr Val Ser Ala Glu Leu Pro Lys
 1 5

<210> 517
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 Thr Val Tyr Ala Glu Pro Pro Lys
 1 5

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 Val Ser Asn Leu Ala Thr Gly Arg

1

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<400> 519

Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys

1

5

10

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Tyr Ser Trp Tyr Lys Gly Glu Arg

1

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1

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<400> 522

Ala Thr Gly Gln Phe Arg Val Tyr

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Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu
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Ala Thr Gly Arg Asn Asn Ser Ile
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Ala Thr Val Gly Ile Met Ile Gly Val Leu
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Ala Val Ala Leu Thr Cys Glu Pro Glu Ile
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Ala Tyr Ser Gly Arg Glu Ile Ile
1 5

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 Cys Ile Pro Trp Gln Arg Leu Leu
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1 5 10

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Glu Ile Ile Tyr Pro Asn Ala Ser Leu
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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile
1 5 10

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Glu Ile Gln Asn Thr Thr Tyr Leu Trp Trp
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Glu Thr Gln Asp Ala Thr Tyr Leu
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Glu Thr Gln Asp Ala Thr Tyr Leu Trp
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Glu Thr Gln Asp Ala Thr Tyr Leu Trp Trp
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<400> 546

Glu Val Leu Leu Leu Val His Asn Leu
1 5

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Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu
1 5 10

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1 5 10

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Gly Phe Tyr Thr Leu His Val Ile
1 5

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1 5 10

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Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe
1 5 10

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Gly Leu Asn Arg Thr Thr Val Thr Thr Ile
1 5 10

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<400> 553

Gly Leu Ser Ala Gly Ala Thr Val Gly Ile
1 5 10

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<400> 554

Gly Leu Ser Ala Gly Ala Thr Val Gly Ile Met
1 5 10

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<400> 555

Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu
1 5 10

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<400> 556

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Phe | Gln | Gln | Ser | Thr | Gln | Glu | Leu | Phe |
| 1 | | | | 5 | | | | | 10 | |

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<400> 557

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Gln | Gln | Ala | Thr | Pro | Gly | Pro | Ala | Tyr |
| 1 | | | | 5 | | | | | 10 | |

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<400> 558

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Thr | Tyr | Ala | Cys | Phe | Val | Ser | Asn | Leu |
| 1 | | | | 5 | | | | | 10 |

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<400> 559

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| Gly | Val | Leu | Val | Gly | Val | Ala | Leu |
| 1 | | | 5 | | | | |

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<400> 560

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Val | Leu | Val | Gly | Val | Ala | Leu | Ile |
| 1 | | | | 5 | | | | |

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<400> 561
His Leu Phe Gly Tyr Ser Trp Tyr
1 5

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His Thr Gln Glu Leu Phe Ile Ser Asn Ile
1 5 10

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<400> 563
His Thr Gln Val Leu Phe Ile Ala Lys Ile
1 5 10

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Ile Ile Gln Asn Asp Thr Gly Phe
1 5

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Ile Ile Gln Asn Asp Thr Gly Phe Tyr
 1 5

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 1 5 10

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 1 5

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 Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu
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 Ile Ile Tyr Pro Asn Ala Ser Leu
 1 5

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1 5 10

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Ile Met Ile Gly Val Leu Val Gly Val Ala Leu
1 5 10

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<400> 573

Ile Thr Glu Lys Asn Ser Gly Leu
1 5

<210> 574

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Ile Thr Glu Lys Asn Ser Gly Leu Tyr
1 5

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 Ile Thr Pro Asn Asn Asn Gly Thr Tyr
 1 5

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<400> 576
 Ile Thr Val Asn Asn Ser Gly Ser Tyr
 1 5

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<400> 577
 Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe
 1 5 10

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<400> 578
 Ile Tyr Pro Asn Ala Ser Leu Leu
 1 5

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1

5

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<211> 10

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<400> 580

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ile | Thr | Pro | Asn | Asn | Asn | Gly | Thr | Tyr |
| 1 | | | | 5 | | | | | 10 |

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<400> 581

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Leu | Thr | Ile | Glu | Ser | Thr | Pro | Phe |
| 1 | | | | 5 | | | | |

<210> 582

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<220>

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<400> 582

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Thr | Ile | Thr | Val | Ser | Ala | Glu | Leu |
| 1 | | | | 5 | | | | |

<210> 583

<211> 8

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<213> Artificial Sequence

<220>

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<400> 583

| | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Leu | Thr | Ala | Ser | Leu | Leu |
| 1 | | | | 5 | | | |

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<400> 584

Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe
1 5 10

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<400> 585

Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp
1 5 10

<210> 586

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<400> 586

Leu Leu Leu Val His Asn Leu Pro Gln His Leu
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<400> 587

Leu Leu Thr Ala Ser Leu Leu Thr Phe
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<400> 588

Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp
1 5 10

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Leu Leu Val His Asn Leu Pro Gln His Leu
1 5 10

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<400> 590
Leu Leu Val His Asn Leu Pro Gln His Leu Phe
1 5 10

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Leu Thr Ala Ser Leu Leu Thr Phe
1 5

<210> 592
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Leu Thr Ala Ser Leu Leu Thr Phe Trp
1 5

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<400> 593
Leu Thr Ile Glu Ser Thr Pro Phe
1 5

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Asn Gly Gln Ser Leu Pro Val Ser Pro Arg

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Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu
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Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
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Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu
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Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu
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Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn
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<223> Artificial Peptide

<400> 1887

Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

<210> 1888

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1888

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
1 5 10 15

<210> 1889
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1889
 Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 1890
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1890
 Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Leu
 1 5 10 15

<210> 1891
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1891
 Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg
 1 5 10 15

<210> 1892
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1892
 Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly
 1 5 10 15

<210> 1893
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1893

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Cys | Gly | Ile | Gln | Asn | Ser | Val | Ser | Ala | Asn | Arg | Ser | Asp | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1894

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1894

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Asn | Ser | Val | Ser | Ala | Asn | Arg | Ser | Asp | Pro | Val | Thr | Leu | Asp |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1895

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1895

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Pro | Val | Thr | Leu | Asp | Val | Leu | Tyr | Gly | Pro | Asp | Thr | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1896

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1896

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Val | Leu | Tyr | Gly | Pro | Asp | Thr | Pro | Ile | Ile | Ser | Pro | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1897

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1897

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Val | Leu | Tyr | Gly | Pro | Asp | Thr | Pro | Ile | Ile | Ser | Pro | Pro | Asp |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1898

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1898

Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala
 1 5 10 15

<210> 1899

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1899

Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser
 1 5 10 15

<210> 1900

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1900

Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
 1 5 10 15

<210> 1901

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1901

Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln
 1 5 10 15

<210> 1902

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1902

Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe Ile Ala
 1 5 10 15

<210> 1903
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1903
 Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
 1 5 10 15

<210> 1904
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1904
 Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr
 1 5 10 15

<210> 1905
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1905
 Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr
 1 5 10 15

<210> 1906
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1906
 Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg
 1 5 10 15

<210> 1907
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1907

Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
 1 5 10 15

<210> 1908
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1908
 Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile
 1 5 10 15

<210> 1909
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1909
 Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
 1 5 10 15

<210> 1910
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1910
 Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
 1 5 10 15

<210> 1911
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1911
 Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu
 1 5 10 15

<210> 1912
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1912

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Thr | Val | Ser | Ala | Ser | Gly | Thr | Ser | Pro | Gly | Leu | Ser | Ala |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1913

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1913

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Pro | Gly | Leu | Ser | Ala | Gly | Ala | Thr | Val | Gly | Ile | Met | Ile | Gly |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1914

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1914

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Val | Gly | Ile | Met | Ile | Gly | Val | Leu | Val | Gly | Val | Ala | Leu | Ile |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1915

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1915

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Lys | Leu | Thr | Ile | Glu | Ser | Thr | Pro | Phe | Asn | Val | Ala | Glu |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1916

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1916

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ser | Trp | Tyr | Lys | Gly | Glu | Arg | Val | Asp | Gly | Asn | Arg | Gln | Ile |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1917

<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1917
 Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly
 1 5 10 15

<210> 1918
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1918
 Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro
 1 5 10 15

<210> 1919
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1919
 Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly
 1 5 10 15

<210> 1920
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1920
 Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

<210> 1921
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1921
 Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly

| | | | |
|---|---|----|----|
| 1 | 5 | 10 | 15 |
|---|---|----|----|

<210> 1922
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Artificial Peptide

 <400> 1922
 Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val
 1 5 10 15

<210> 1923
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Artificial Peptide

 <400> 1923
 Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
 1 5 10 15

<210> 1924
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Artificial Peptide

 <400> 1924
 Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1925
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Artificial Peptide

 <400> 1925
 Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
 1 5 10 15

<210> 1926
 <211> 15
 <212> PRT
 <213> Artificial Sequence

 <220>

<223> Artificial Peptide

<400> 1926

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ala | Ser | Tyr | Lys | Cys | Glu | Thr | Gln | Asn | Pro | Val | Ser | Ala | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1927

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1927

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Val | Leu | Tyr | Gly | Pro | Asp | Ala | Pro | Thr | Ile | Ser | Pro | Leu | Asn |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1928

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1928

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Ile | Thr | Val | Tyr | Ala | Glu | Pro | Pro | Lys | Pro | Phe | Ile | Thr | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1929

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1929

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asn | Pro | Val | Glu | Asp | Glu | Asp | Ala | Val | Ala | Leu | Thr | Cys | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1930

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1930

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Leu | Thr | Cys | Glu | Pro | Glu | Ile | Gln | Asn | Thr | Thr | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1931

<211> 15

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1931
 Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
 1 5 10 15

<210> 1932
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1932
 Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
 1 5 10 15

<210> 1933
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1933
 Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
 1 5 10 15

<210> 1934
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1934
 Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
 1 5 10 15

<210> 1935
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1935
 Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr
 1 5 10 15

<210> 1936
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1936
 Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
 1 5 10 15

<210> 1937
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1937
 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
 1 5 10 15

<210> 1938
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1938
 Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu Pro
 1 5 10 15

<210> 1939
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1939
 Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 1 5 10 15

<210> 1940
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1940

Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser Asp Thr Gly Leu
1 5 10 15

<210> 1941

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1941

Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp
1 5 10 15

<210> 1942

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1942

Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
1 5 10 15

<210> 1943

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1943

Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro
1 5 10 15

<210> 1944

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1944

Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser
1 5 10 15

<210> 1945

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1945

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Leu | Pro | Ala | Ser | Pro | Glu | Thr | His | Leu | Asp | Met | Leu | Arg | His |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1946

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1946

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Leu | Ile | Ala | His | Asn | Gln | Val | Arg | Gln | Val | Pro | Leu | Gln | Arg |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1947

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1947

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Leu | Thr | Leu | Ile | Asp | Thr | Asn | Arg | Ser | Arg | Ala | Cys | His | Pro |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1948

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1948

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ala | Leu | Ile | His | His | Asn | Thr | His | Leu | Cys | Phe | Val | His | Thr |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1949

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1949

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asp | Gln | Leu | Phe | Arg | Asn | Pro | His | Gln | Ala | Leu | Leu | His | Thr |
| 1 | | | | 5 | | | | | 10 | | | | 15 | |

<210> 1950
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1950
 His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln
 1 5 10 15

<210> 1951
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1951
 Gly Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu
 1 5 10 15

<210> 1952
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1952
 Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu
 1 5 10 15

<210> 1953
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1953
 Gln Gly Gly Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser
 1 5 10 15

<210> 1954
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1954

Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His
 1 5 10 15

<210> 1955

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1955

Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His
 1 5 10 15

<210> 1956

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1956

Thr Leu Lys Ile Gly Gly Glu Pro His Ile Ser Tyr Pro Pro Leu
 1 5 10 15

<210> 1957

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1957

Glu Phe Gln Ala Ala Leu Ser Arg Lys Val Ala Glu Leu Val His
 1 5 10 15

<210> 1958

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1958

Glu Asp Ser Ile Leu Gly Asp Pro Lys Lys Leu Leu Thr Gln His
 1 5 10 15

<210> 1959

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1959

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ile | Tyr | Lys | Gln | Ser | Gln | His | Met | Thr | Glu | Val | Val | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1960

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1960

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Ile | Arg | Val | Glu | Gly | Asn | Leu | Arg | Val | Glu | Tyr | Leu | Asp | Asp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1961

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1961

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Glu | Tyr | Phe | Thr | Leu | Gln | Ile | Arg | Gly | Arg | Glu | Arg | Phe | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 1962

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1962

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Pro | Trp | Gln | Arg | Leu | Leu | Leu | Thr |
| 1 | | | | 5 | | | | |

<210> 1963

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1963

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Gln | Arg | Leu | Leu | Leu | Thr | Ala | Ser |
| 1 | | | | 5 | | | | |

<210> 1964
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1964
Leu Leu Leu Thr Ala Ser Leu Leu Thr
1 5

<210> 1965
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1965
Leu Leu Thr Ala Ser Leu Leu Thr Phe
1 5

<210> 1966
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1966
Leu Thr Ala Ser Leu Leu Thr Phe Trp
1 5

<210> 1967
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1967
Leu Thr Phe Trp Asn Pro Pro Thr Thr
1 5

<210> 1968
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1968

Phe Trp Asn Pro Pro Thr Thr Ala Lys
 1 5

<210> 1969
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 1969
 Trp Asn Pro Pro Thr Thr Ala Lys Leu
 1 5

<210> 1970
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2319

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

<210> 2320

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2320

Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
 1 5 10 15

<210> 2321

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2321

Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
 1 5 10 15

<210> 2322

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2322

Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2323

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2323

Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
 1 5 10 15

<210> 2324

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2324

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Pro | Ser | Ile | Ser | Ser | Asn | Asn | Ser | Lys | Pro | Val | Glu | Asp | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2325

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2325

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Leu | Trp | Trp | Val | Asn | Asn | Gln | Ser | Leu | Pro | Val | Ser | Pro | Arg |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2326

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2326

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Trp | Trp | Val | Asn | Asn | Gln | Ser | Leu | Pro | Val | Ser | Pro | Arg | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2327

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2327

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Tyr | Ser | Trp | Phe | Val | Asn | Gly | Thr | Phe | Gln | Gln | Ser | Thr | Gln |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2328

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2328

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Thr | Gly | Leu | Asn | Arg | Thr | Thr | Val | Thr | Thr | Ile | Thr | Val | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2329
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2329
 Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu Asp Glu
 1 5 10 15

<210> 2330
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2330
 Asn Arg Thr Leu Thr Leu Leu Ser Val Thr Arg Asn Asp Val Gly
 1 5 10 15

<210> 2331
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2331
 Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
 1 5 10 15

<210> 2332
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2332
 Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
 1 5 10 15

<210> 2333
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2333

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ala | Glu | Leu | Pro | Lys | Pro | Ser | Ile | Ser | Ser | Asn | Asn | Ser | Lys |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2334

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2334

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Asp | Val | Leu | Tyr | Gly | Pro | Asp | Thr | Pro | Ile | Ile | Ser | Pro | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2335

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2335

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Val | Leu | Phe | Ile | Ala | Lys | Ile | Thr | Pro | Asn | Asn | Asn | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2336

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2336

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Leu | Phe | Ile | Ala | Lys | Ile | Thr | Pro | Asn | Asn | Asn | Gly | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2337

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2337

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Ala | Cys | Phe | Val | Ser | Asn | Leu | Ala | Thr | Gly | Arg | Asn | Asn | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2338

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2338

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Asn | Ser | Ile | Val | Lys | Ser | Ile | Thr | Val | Ser | Ala | Ser | Gly | Thr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2339

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2339

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Ile | Val | Lys | Ser | Ile | Thr | Val | Ser | Ala | Ser | Gly | Thr | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2340

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2340

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Trp | Cys | Ile | Pro | Trp | Gln | Arg | Leu | Leu | Leu | Thr | Ala | Ser | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2341

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2341

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Leu | Leu | Leu | Val | His | Asn | Leu | Pro | Gln | His | Leu | Phe | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2342

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2342

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Arg | Glu | Ile | Ile | Tyr | Pro | Asn | Ala | Ser | Leu | Leu | Ile | Gln | Asn |
| 1 | | | | 5 | | | | | | 10 | | | | 15 |

<210> 2343
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2343
 Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
 1 5 10 15

<210> 2344
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2344
 Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2345
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2345
 Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 2346
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2346
 Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
 1 5 10 15

<210> 2347
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2347

Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
 1 5 10 15

<210> 2348
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2348
 Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
 1 5 10 15

<210> 2349
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2349
 Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
 1 5 10 15

<210> 2350
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2350
 Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

<210> 2351
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2351
 Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly
 1 5 10 15

<210> 2352
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2352

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Ser | Asp | Leu | Val | Asn | Glu | Glu | Ala | Thr | Gly | Gln | Phe | Arg | Val |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2353

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2353

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Asp | Leu | Val | Asn | Glu | Glu | Ala | Thr | Gly | Gln | Phe | Arg | Val | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2354

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2354

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Glu | Glu | Ala | Thr | Gly | Gln | Phe | Arg | Val | Tyr | Pro | Glu | Leu | Pro |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2355

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2355

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Phe | Arg | Val | Tyr | Pro | Glu | Leu | Pro | Lys | Pro | Ser | Ile | Ser | Ser |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2356

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2356

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Ala | Phe | Thr | Cys | Glu | Pro | Glu | Thr | Gln | Asp | Ala | Thr | Tyr |
| 1 | | | | 5 | | | | | 10 | | | | | 15 |

<210> 2357

<211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2357
 Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
 1 5 10 15

<210> 2358
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2358
 Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn
 1 5 10 15

<210> 2359
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2359
 Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn
 1 5 10 15

<210> 2360
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2360
 Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser Asp Thr Gly Leu
 1 5 10 15

<210> 2361
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2361
 Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser

1 5 10 15

<210> 2362
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2362
 Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu
 1 5 10 15

<210> 2363
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2363
 Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr
 1 5 10 15

<210> 2364
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2364
 Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Asp
 1 5 10 15

<210> 2365
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2365
 Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
 1 5 10 15

<210> 2366
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2366

Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
1 5 10 15

<210> 2367

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2367

Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
1 5 10 15

<210> 2368

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2368

Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
1 5 10 15

<210> 2369

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2369

Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro
1 5 10 15

<210> 2370

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2370

Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

<210> 2371

<211> 15

<212> PRT
 <213> Artificial Sequence

<220>
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<400> 2371
 Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr Thr Tyr
 1 5 10 15

<210> 2372
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2372
 Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
 1 5 10 15

<210> 2373
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 2373
 Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
 1 5 10 15

<210> 2374
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2374
 Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser
 1 5 10 15

<210> 2375
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2375
 Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
 1 5 10 15

<210> 2376
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2376
 Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 1 5 10 15

<210> 2377
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2377
 Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
 1 5 10 15

<210> 2378
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2378
 Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
 1 5 10 15

<210> 2379
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2379
 Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 1 5 10 15

<210> 2380
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Artificial Peptide

<400> 2380

Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 1 5 10 15

<210> 2381

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2381

Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser
 1 5 10 15

<210> 2382

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2382

Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
 1 5 10

<210> 2383

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2383

Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
 1 5 10 15
 Asn Val Val Asn Ser
 20

<210> 2384

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 2384

Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
 1 5 10 15

<210> 2385

<211> 13
<212> PRT
<213> Artificial Sequence:

<220>
<223> Artificial Peptide

<221> MOD_RES
<222> 1, 13
<223> Xaa = D-alanine or L-alanine

<221> MOD_RES
<222> 3
<223> Xaa = cyclohexylalanine, Phe or Tyr

<400> 2385
Xaa Lys Xaa Val Trp Ala Asn Thr Leu Lys Ala Ala Xaa
1 5 10